TEJUS
CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

Name of Work	:	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	:	Bruhat Bangalore Mahanagara Palike
Consultants		TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	M/s Karthik Enterprises
No.of Sample Tested	:	3
Date of Testing	:	05/04/18
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20} - 100mm thick

Sl.No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.449	2540.82	1.80	0.960	38.14	19.42	20.98	20.14	25.17
2	50.00	90.00	0.453	2563.46	1.80	0.960	38.68	19.70	21.28	20.42	25.53
3	50.00	90.00	0.444	2512.53	1.80	0.960	38.19	19.45	21.01	20.17	25.21

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

For KARTHIK ENTERPRISES

Authorised Signatory

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Test Report on Compressive Strength of Concrete Cubes

Project	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Karthik Enterprises
Location:	Cement
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

28 days

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	19/03/18	16/04/18	28 days	8.582	22500	452	20.09	20.16
2	19/03/18	16/04/18	28 days	8.762	22500	454	20.18	
3	19/03/18	16/04/18	28 days	8.560	22500	455	20.22	

For KARTHIK ENTERPRISES

Authorised Signatory

TEJUS CONSULTANTS

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Project	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Proposed Use	WMM	**Date of Sampling**	**3/6/2018**
Sample Location	**At plant**	**Date of Testing**	**3/6/2018**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	385.00	395.00	378.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	301.00	308.00	296.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	84.00	87.00	82.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	21.82	22.03	21.69	
5	Average Aggregate impact value	(%)	21.85			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

For KARTHIK ENTERPRISES

Authorised Signatory

Consultant's Representative

TEJUS CONSULTANTS

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Project	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	WMM	**Proposed Use**	**WMM**
Sample Location	At plant	**Date of Sampling**	**3/6/2018**
		Date of Testing	**3/6/2018**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	612	80	532	71
16.0	12.5	1154	112	1042	105
12.5	10.0	770	70	700	66
10.0	6.3	610	60	550	54
Total		**3146**	**322**	**2824**	**296**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.24
Elongation Index(%):	10.48
Combined FI+EL (%)	20.72

For KARTHIK ENTERPRISES

Authorised Signatory

Consultant's Representative

12.06

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name of Work	:	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	:	Bruhat Bengaluru Mahanagara Palike.
Consultant	:	TEJUS CONSULTANTS, Basaveshwar Nagar Bangalore.
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	3/6/2018
Type of Mix	:	WMM
Sample I/D	:	WMM 1

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	At plant	**Date of Sampling:**	3/6/2018
		Date of testing:	3/6/2018
Type of material & Purpose:	WMM	**Oven Dry Wt.(gms):**	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	350	350	3.50	96.50	95-100
22.4	2250	2600	26.00	74.00	60-80
11.2	1875	4475	44.75	55.25	40-60
4.75	1652.0	6127	61.27	38.73	25-40
2.36	1420.0	7547	75.47	24.53	15-30
0.6	790.0	8337	83.37	16.63	8.0-22.0
0.075	850.0	9187	91.87	8.13	0-8
Pan	813.0				
Total	10000.0				

For KARTHIK ENTERPRISES

Authorised Signatory

Consultant's Representative

CONSULTANTS

Assistant Executive Engineer,
Kodigehalli Sub Division.
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

Project	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.	
Client	Bruhat Bengaluru Mahanagara Palike	
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s Karthik Enterprises	
Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)		
	Date:	**5/6/2018**
Layer no. or level	WMM I layer	
Depth of hole	250mm	
Field density:	1	2
Wt. of wet material from hole (Ww) gms.	6425	6324
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9615	9680
Wt. of sand in cone (w3) gms.	832	830
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3553	3490
Bulk density of sand (γs)gm/cc	1.31	1.31
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.37	2.37
Moisture meter reading(moisture content)	12.20	12.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.11	2.12
MDD	2.14	2.14
OMC	13.50%	13.50%
% compaction obtained	98.66	98.86
% compaction required	98%	98%

For KARTHIK ENTERPRISES

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Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Project	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	DBM	**Date of Sampling**	**11/6/2018**
Sample Location	At plant	**Date of Testing**	**11/6/2018**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	392.00	372.00	378.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	296.00	280.00	275.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	96.00	92.00	103.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	24.49	24.73	27.25	
5	Average Aggregate impact value	(%)	25.49			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

For KARTHIK ENTERPRISES

Authorised Signatory

Consultant's Representative

TEJUS CONSULTANTS

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Project	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	DBM	**Proposed Use**	**DBM**
Sample Location	At plant	**Date of Sampling**	11/6/2018
		Date of Testing	11/6/2018

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	7850	680	7170	380
31.5	25.0	4256	205	3569	290
25.0	20.0	2450	270	1978	210
20.0	16.0	1568	340	1000	270
16.0	12.5	560	98	462	156
12.5	10.0	280	60	230	89
10.0	6.3	130	80	80	56
Total		**17094**	**1733**	**14489**	**1451**

Results

Flakiness Index(%):	10.14
Elongation Index(%):	10.01
Combined FI+EL (%)	20.15

KARTHIK ENTERPRISES

Authorised Signatory

Consultant's Representative

TEJUS CONSULTANTS

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name of Work	:	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	11/6/2018
Type of Mix	:	DBM
Sample I/D	:	DBM-1

GRADATION FOR DBM
(As per MORT&H 500-10,Grading-2)

Sample Location:	At plant	**Date of Sampling:**	11/6/2018
		Date of testing:	11/6/2018
Type of material & Purpose:	DBM	**Oven Dry Wt.(gms):**	1500.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0	0	0.00	100.00	100.00
26.50	80	80	5.33	94.67	90-100
19.00	110	190	12.67	87.33	71-95
13.20	230	420	28.00	72.00	56-80
4.750	340	760	50.67	49.33	38-54
2.360	185	945	63.00	37.00	28-42
0.300	280	1225	81.67	18.33	7-21
0.075	180	1405	93.67	6.33	2-8
Pan	95				
Total	1500.0				

HIK ENTERPRISES

Authorised Signatory

Consultant's Representative

TEJUS CONSULTANTS

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

DETERMINATION OF BITUMEN CONTENT AND GRADATION DENSE BITUMINOUS MACADAM MIX

Name of Work	:	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	12/6/2018
Type of Mix	:	DBM
Sample I/D	:	DBM-1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	825	850
2. Weight of Mixture after extraction, g	789	813
3. Weight of Bitumen	36	37
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.00	4.00
6. Weight of fines, g	2.00	2.00
7. Weight of Bitumen & fines	38.00	39.00
8. Bitumen content in %	4.61	4.59
9. Average Bitumen content in %	4.60	
10. Minimum Bitumen content in %	4.50	

GRADATION FOR DBM AFTER EXTRACTION

(As per MORT&H 500-10,Grading-2)

Sample Location:	At site	**Date of Sampling:**	12/6/2018
		Date of testing:	12/6/2018
Type of material & Purpose:	DBM	**Oven Dry Wt.(gms):**	789

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0.0	0.0	0.00	100.00	100.00
26.50	40.0	40.0	5.07	94.93	90-100
19.00	110.0	150.0	19.01	80.99	71-95
13.20	115.0	265.0	33.59	66.41	56-80
4.750	172.0	437.0	55.39	44.61	38-54
2.360	90.0	527.0	66.79	33.21	28-42
0.300	135.0	662.0	83.90	16.10	7-21
0.075	78.0	740.0	93.79	6.21	2-8
Pan	49.0				
Total	789.0				

For KARTHIK ENTERPRISES

Authorised Signatory

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name of Work	:	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	12/6/2018
Type of Mix	:	Tack coat DBM
Sample I/D	:	1

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.770	0.785
Final weight of plate after application of tack Coat (c)	Kg	0.793	0.808
Weight of tack coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.256	0.256
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

For KARTHIK ENTERPRISES

Authorised Signatory

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name of Work	:	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	12/6/2018
Type of Mix	:	Tack coat DBM
Sample I/D	:	2

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.795	0.768
Final weight of plate after application of tack Coat (c)	Kg	0.818	0.791
Weight of tack coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.256	0.256
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

For KARTHIK ENTERPRISES

Authorised Signatory

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Project	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	BC	**Date of Sampling**	**21/06/18**
Sample Location	At plant	**Date of Testing**	**21/06/18**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	375.00	382.00	383.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	295.00	293.00	295.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	80.00	89.00	88.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	21.33	23.30	22.98	
5	Average Aggregate impact value	(%)	22.54			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

For KARTHIK ENTERPRISES

Authorised Signatory

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Project	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Karthik Enterprises

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC		**Proposed Use**	**BC**
Sample Location	At plant		**Date of Sampling**	21/06/18
			Date of Testing	21/06/18

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	758	80	950	70
16.0	12.5	1400	120	1250	115
12.5	10.0	520	70	450	60
10.0	6.3	470	60	430	75
Total		**3148**	**330**	**3080**	**320**

Note: Minimum 200 Pcs should be taken on each fraction of test

		Flakiness Index(%):	10.48		
		Elongation Index(%):	10.39		
		Combined FI+EL (%)	20.87		

For KARTHIK ENTERPRISES

Authorised Signatory

TEJUS CONSULTANTS

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Name of Work	:	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	21/6/18
Type of Mix	:	BC
Sample I/D	:	BC2

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Sample Location:	At plant	**Date of Sampling:**	21/06/18
		Date of testing:	21/06/18
Type of material & Purpose:	BC	**Oven Dry Wt.(gms):**	1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19	0	0	0.00	100.00	100.00
13.20	90	90.0	7.50	92.50	79 - 100
9.50	125	215.0	17.92	82.08	71 - 95
4.75	240	455.0	37.92	62.08	53 - 71
2.360	190	645.0	53.75	46.25	42 - 58
1.180	95	740.0	61.67	38.33	34 - 48
0.600	125	865.0	72.08	27.92	26 - 38
0.300	80	945.0	78.75	21.25	18 - 28
0.150	65	1010.0	84.17	15.83	12 - 20
0.075	120	1130.0	94.17	5.83	4 - 10
Pan	70.0				
Total	1200.0				

For KARTHIK ENTERPRISES

Authorised Signatory

Consultant's Representative

TEJUS
CONSULTANTS

DETERMINATION OF BITUMEN CONTENT AND GRADATION OF BITUMINOUS CONCRETE MIX

Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	22/06/18
Type of Mix	:	BC
Sample I/D	:	BC1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	950	945
2. Weight of Mixture after extraction, g	900	895
3. Weight of Bitumen	50	50
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.10	4.00
6. Weight of fines, g	2.10	2.00
7. Weight of Bitumen & fines	52.10	52.00
8. Bitumen content in %	5.48	5.50
9. Average Bitumen content in %	**5.49**	
10. Minimum Bitumen content in %	**5.40**	

GRADATION FOR BC AFTER EXTRACTION(As per MORT&H 500-18,Grading-2)

Sample Location:	At site	**Date of Sampling:**	22/06/18
		Date of testing:	22/06/18
Type of material & Purpose:	BC	**Oven Dry Wt.(gms):**	900.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	80	80.0	8.89	91.11	79 - 100
9.50	125	205.0	22.78	77.22	71 - 95
4.75	90	295.0	32.78	67.22	53 - 71
2.360	145	440.0	48.89	51.11	42 - 58
1.180	135	575.0	63.89	36.11	34 - 48
0.600	70	645.0	71.67	28.33	26 - 38
0.300	65	710.0	78.89	21.11	18 - 28
0.150	45	755.0	83.89	16.11	12 - 20
0.075	70	825.0	91.67	8.33	4 - 10
Pan	75.0				
Total	900.0				

For KARTHIK ENTERPRISES

Authorised Signatory

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT			
Name of Work	:	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.	
Client	:	Bruhat Bengaluru Mahanagara Palike	
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	:	M/s Karthik Enterprises	
Date of Testing	:	22/06/18	
Type of Mix	:	Tack coat	
Sample I/D	:	1	

DETERMINATION OF RATE OF SPREAD TACK COAT			
Determination	**Unit**	**Test No**	
		1	**2**
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.760	0.790
Final weight of plate after application of tack Coat (c)	Kg	0.783	0.813
Weight of tack Coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq. m	0.256	0.256
Average	Kg/sq.	0.256	
Specified Limit	Kg/sq.	**0.250 Kg/sq.m**	

For KARTHIK ENTERPRISES

Authorised Signatory

Consultant's Representative

TEJUS CONSULTANTS

11:08 22/6/18

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT			
Name of Work	:	Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.	
Client	:	Bruhat Bengaluru Mahanagara Palike	
Consultant	:	TEJUS CONSULTANTS Basaveshwar	
Contractor	:	M/s Karthik Enterprises	
Date of Testing	:	22/06/18	
Type of Mix	:	Tack coat	
Sample I/D	:	2	

DETERMINATION OF RATE OF SPREAD TACK COAT			
Determination	**Unit**	**Test No**	
		1	**2**
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.090	0.090
Initial Wt of empty Plate (b)	Kg	0.770	0.780
Final weight of plate after application of tack Coat (c)	Kg	0.793	0.803
Weight of tack Coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.256	0.256
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 to 0.30 Kg/sq.m**	

Consultant's Representative

For KARTHIK ENTERPRISES

Authorised Signatory

22/06

Assistant Executive Engineer.
Kodigehalli Sub Division.
Yelahanka Zone, B.B.M.P.,
Bangalore.